## **EUKUPEAN PAIENT OFFICE**

## Patent Abstracts of Japan

**PUBLICATION NUMBER** 

04372536

PUBLICATION DATE

25-12-92

APPLICATION DATE

19-06-91

APPLICATION NUMBER

03147623

APPLICANT: OMRON CORP;

INVENTOR: FUJII YUJI;

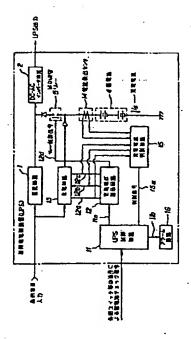
INT.CL.

H02J 7/34 G01R 31/36 H02J 7/00

TITLE

**ELECTRONIC EQUIPMENT USING** 

. STORAGE BATTERY



ABSTRACT :

PURPOSE: To detect the state of a storage battery automatically without requiring time or labor from a user, etc., and without discharging the storage battery to exert an influence upon the life of the battery.

CONSTITUTION: According to instructions of a UPS(uninterruptible power supply) control circuit 11, a charging voltage instruction circuit 12 successively gives a charging circuit 13 instructions to apply a voltage lower than the optimum charging voltage of the storage battery 4, the optimum charging voltage and a voltage higher than the optimum charging voltage to the storage battery 4, and the charging circuit 13 charges the storage battery 4 according to these instructions. A current detection sensor 14 detects the value of a charging current iB supplied to the storage battery 4 at that time and sends the value to a charging current discrimination circuit 15. The charging current discrimination circuit 15 compares the value of the charging current iB with a charge completion current value obtained when the storage battery 4 is normal and in a charge completion state, disriminates the state of the storage battery, i.e., a normal state, overdischarge state or deterioration state caused by a high impedance deterioration, etc., and sends a discrimination signal to the UPS control circuit 11.

COPYRIGHT: (C) JPO